

WHAT IS CLAIMED IS:

1. A user confirmation system using a recording medium capable of storing information, comprising:

- 5           a biological information obtaining part for obtaining first biological information on a user at a time of first use of the recording medium;  
            a user registration part for registering the first biological information in the recording medium, considering the user as an owner of the recording medium; and  
10          an owner confirmation part for detecting second biological information on a user at a time of second and later use of the recording medium, and determining whether or not the user using the recording medium is identical with the owner registered in the recording medium, based on the first and second biological information.

15           2. A user confirmation system according to claim 1, wherein the owner registration part comprises:

- a biological information obtaining part for obtaining first biological information on a user at a time of first use of the recording medium;  
20          a recording medium reading part for reading information on a use status of the recording medium;  
            a read data checking part for checking whether or not the recording medium is being used with proper authorization, based on the information on a use status read in the recording medium reading part; and  
25          a recording medium writing part for writing, in a case of use with proper authorization, the first biological information on the user and the information on a use status of the recording medium in the recording medium, and writing, in a case of use without proper authorization, invalidity information on the recording medium and the information on a use status in  
30          the recording medium.

3. A user confirmation system according to claim 2, wherein the owner

confirmation part comprises:

a user biological information obtaining part for obtaining the second biological information on a user of the recording medium;

5 a recording medium reading part for reading an identifier of the recording medium, information on a use state of the recording medium, and the first biological information on the user;

a use status checking part for checking whether or not the recording medium is being used with proper authorization, based on the information on a use status read in the recording medium reading part;

10 a similarity determining part for calculating similarity by comparing the second biological information obtained in the user biological information obtaining part with the first biological information read in the recording medium reading part, determining authorized use when the similarity exceeds a predetermined threshold value, and determining unauthorized use  
15 when the similarity is equal to or lower than a predetermined threshold value; and

a recording medium writing part for writing, in a case of use with proper authorization, the information on a use status and, if required, the second biological information on the user in the recording medium, and  
20 writing, in a case of use without proper authorization, invalidity information on the recording medium and the information on a use status in the recording medium.

4. A user confirmation system using a recording medium capable of storing  
25 information, comprising:

a biological information obtaining part for obtaining first biological information on a user at a time of first use of the recording medium;

an owner registration part for registering the first biological information in a database disposed on a network, considering the user as an  
30 owner of the recording medium; and

an owner confirmation part for detecting second biological information on a user at a time of second and later use of the recording medium, and

determining weather or not a user using the recording medium is identical with the owner registered in the database, based on the first and second biological information.

- 5 5. A user confirmation system according to claim 4, wherein the owner registration part comprises:

a biological information obtaining part for obtaining first biological information on a user at a time of first use of the recording medium;

- 10 a recording medium reading part for reading an identifier of the recording medium;

a read data checking part for checking whether or not the recording medium is being used with proper authorization, based on the information on a use state extracted from the database, using the identifier read in the recording medium reading part as key information; and

- 15 a recording medium writing part for writing, in a case of use with proper authorization, the first biological information on the user and the information on a use status of the recording medium in the database and writing, in a case of use without proper authorization, invalidity information on the recording medium and the information on a use status in the database.

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6. A user confirmation system according to claim 5, wherein the owner confirmation part comprises:

a user biological information obtaining part for obtaining the second biological information on a user of the recording medium;

- 25 a recording medium reading part for reading an identifier of the recording medium;

a use status checking part for checking whether or not the recording medium is being used with proper authorization, based on the information on a use status extracted from the database, using the identifier read in the

- 30 recording medium reading part as key information;

a similarity determining part for calculating similarity by comparing the second biological information obtained in the user biological information

- obtaining part with the first biological information extracted from the database, using the identifier read in the recording medium reading part as key information, determining authorized use when the similarity exceeds a predetermined threshold value, and determining unauthorized use when the similarity is equal to or lower than a predetermined threshold value; and
- 5 a recording medium writing part for writing, in a case of use with proper authorization, the information on a use status and, if required, the second biological information on the user in the database, and writing, in a case of use without proper authorization, invalidity information on the recording medium and the information on a use status in the database.
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7. A method for confirming a user using a recording medium capable of storing information, comprising:
  - obtaining first biological information on a user at a time of first use of
  - 15 the recording medium;
  - registering the first biological information in the recording medium, considering the user as an owner of the recording medium; and
  - detecting second biological information on the user at a time of second and later use of the recording medium, and determining whether or not the
  - 20 user using the recording medium is identical with the owner registered in the recording medium, based on the first and second biological information.
8. A method for confirming a user using a recording medium capable of storing information, comprising:
  - 25 obtaining first biological information on a user at a time of first use of the recording medium;
  - registering the first biological information in a database disposed on a network, considering the user as an owner of the recording medium; and
  - detecting second biological information on a user at a time of second
  - 30 and later use of the recording medium, and determining whether or not the user using the recording medium is identical with the owner registered in the database, based on the first and second biological information.

9. A computer-readable recording medium storing a program to be executed by a computer for realizing a user confirmation method using a recording medium capable of storing information, the program comprising:

5           obtaining first biological information on a user at a time of first use of the recording medium;

          registering the first biological information in the recording medium, considering the user as an owner of the recording medium;

10           detecting second biological information on the user at a time of second and later use of the recording medium, and determining whether or not the user using the recording medium is identical with the owner registered in the recording medium, based on the first and second biological information.

10. A computer-readable recording medium storing a program to be executed by a computer for realizing a user confirmation method using a recording medium capable of storing information, the program comprising:

15           obtaining first biological information on a user at a time of first use of the recording medium;

20           registering the first biological information in a database disposed on a network, considering the user as an owner of the recording medium;

          detecting second biological information on the user at a time of second and later use of the recording medium, and determining whether or not the user using the recording medium is identical with the owner registered in the database, based on the first and second biological information.